



**SIEMENS**

*Ingenuity for life*



Innovative protection that  
combines power and flexibility

Desigo® Fire Safety Modular outpaces industry standards and includes cutting-edge detection and communication capabilities

[usa.siemens.com/desigo-fs-modular](http://usa.siemens.com/desigo-fs-modular)



# Intelligent fire detection for large or complex applications

The Desigo Fire Safety Modular system adds many new innovative features and capabilities available for the Desigo Fire Safety portfolio including I/O modules with built-in isolation and addressable notification appliance booster (PAD-5). The modular system is programmed, operated, and configured in the exact same manner as the FireFinder XLS and offers seamless migration for MXL. These are just some of the advances in the long-term plan of uniting large and mid-Size Desigo Fire Safety panels on the same platform.

**Key Benefits:**

- Class X Isolation I/O Modules with improved performance and reduced power consumption
- PAD-5 with expanded flexibility in designing multi-floor systems and features like isolator device capability, all NACs have Siemens patented Boost Technology
- 8-Channel audio system supporting 300 digital messages that exceed government and Mass Notification System (MNS) specifications
- High-level interface with most VESDA Detection
- Compatible with the full line of detectors and peripherals that meet the latest codes & standards including a 520Hz model Low Frequency detector audible base and speakers suitable for sleeping areas





### Key Benefits for Universities

- Flexible network configurations
- Conventional and intelligent release options

#### Detection & Suppression:

- ASAtechnology provides a no false alarm guarantee
- CO detectors keep students safe where they live

#### Evolves with Facility:

- Developed to network with other buildings/ panels
- Changes detectors by type or setting according to space utilization



### Key Benefits for High Rises

- Send targeted and varied messages simultaneously
- Upgrade fire alarm software without taking system offline

#### Multi-Criteria Detection:

- Add value to residential areas with combination fire/CO detector
- ASAtechnology detectors eliminate false alarms caused by cigarette smoke or burnt food

#### Centralized Control:

- Integrate building systems for simplified building management
- Management station allows customization of views and control

#### Premier Life Safety:

- 300 custom messages enable precise announcements by floor



### Key Benefits for Hospitals

- Desigo Fire Safety Modular anchors multimodal life safety system
- Multicriteria detectors support area-specific detection; CO detection for patient room
- Life safety management station provides centralized control of networked systems

#### Control & Communicate:

- Fire panel supports 300 custom messages providing event specific information to emergency responders
- Management station provides integrated cameras for live visual event confirmation



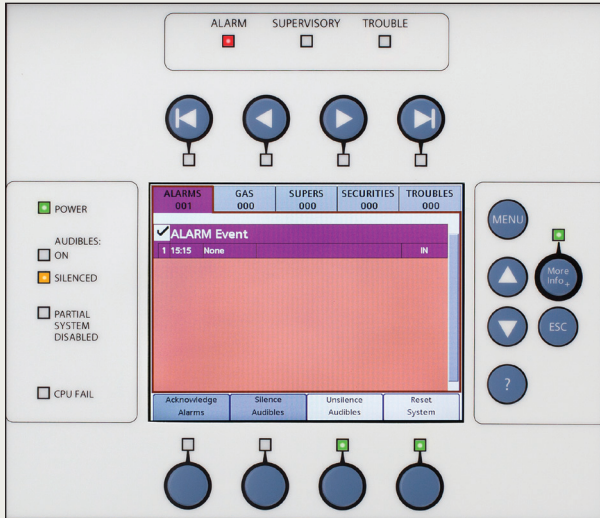
### Key Benefits for Data Centers

- A complete solution for early detection, alarm and suppression protection at the highest levels
- Building and life safety management systems give real time, customized views of networked systems
- Industry leading flexibility for fire detection

#### Very Early Warning Fire Detection:

- Highly sensitive ASAtechnology detection from Siemens that complies with NFPA 720, NFPA 76 (Telco), and UL 2075
- Desigo Fire Safety Modular provides a cost efficient and high level interface with most VESDA Net devices

# Designed with advanced features and options



## High-Performance Full-Color Operator Interface

6" touchscreen provides a central point of annunciation and control for networked Desigo Fire Safety Modular and MXL panels.

- Displays, reports, and responds to alarm signals, trouble alerts, diagnostics, security signals, hazardous or dangerous conditions, and other system information
- Full-color LED display efficiently and visually communicates a wide range of alarm types or system conditions to facility staff and first responders
- The screen is color-coded according to the event type and is customizable by user preference
- Event types support include typical fire events, as well as mass notification, gas and maintenance events
- Touch-sensitive keys are physically responsive, helping users confirm their entries through tactile feedback. Every signal offers a deep "drill-down" path to report many levels of detail about the signal or event
- Can be programmed to display messages in multiple languages including traditional Chinese, Korean, Spanish, Portuguese, French and Hebrew

## Advanced Features

XDLCLoop Card

- Full Line of Detection and Peripherals
- I/O Modules with built-in Isolation
- Addressable PAD-5 NAC Extender
- PAD-5 remote releasing capability
- PAD-5 Conventional zone inputs

## Hardware and Software Compatibility

Industry leading data connection options for faster, more versatile data transfer and management options.

- USB connections make programming, data transfer, and database management tools convenient and easily accessible for authorized personnel
- High-speed Ethernet port
- SD slot, backup SD card slot, and SD card that remains with panel and keeps critical system and configuration information at hand
- Hot swap SD card file transfer without powering down the system

## External References

Coordinate increasingly complex end-to-end life safety functions into one single system by accommodating up to 2,500 functions in a single node.

- Supports up to 1,000 external references, or signals from networked panels and devices
- Desigo Fire Safety Modular can activate and manage a complex smoke control for Mass Notification System functions and other external panel and facility control responses to fire system alarms or events

## XDMC Digital Message Card

300 message capacity allows 100 minutes of recording time and enables multi-layered and pinpoint specific messaging.

- Supports MP3 and WAV files
- Can broadcast two different messages simultaneously
- Includes a complete phrase library for building custom phrases by linking single message components together into a full sentence or paragraph for specific conditions or locations
- Expanded messaging functions support all types of emergency communications, such as fire, acts of terrorism, weather events, and other emergency conditions



### Composer Configuration Laptop Tool

300 message capacity meets your immediate needs and supports future expansion, including Mass Notification Systems (MNS) messaging capability.

Create up to 300 different voice or audio messages with a total of 100 minutes of message time.

- Allows recording, editing, and integration of customized messages using standard recording and audio applications like Microsoft's Voice Recorder

### Advanced Detection Support

Supports a full range of Siemens detector technologies, from cost-competitive single-function optical and thermal only detectors to sophisticated multi-criteria and variable setting detectors.

- High performance multi-criteria ASAt echnology detectors with or without optional CO detection
- Audible signal patterns for carbon monoxide life safety events, such as the Temporal Four coded signal
- Very Early Warning Fire Detectors (VEWFD) comply with NFPA 76 (Telecommunication Standard), UL 2075, and NFPA 720

### MXL Loop Card (MLC)

Allows customers to upgrade their system to take advantage of the faster processor and advanced features in the Designo Fire Safety Modular while keeping their investment in existing MXL devices.

- Upgrade a system loop without requiring a completely new installation, saving time and money
- Preserve investment in wiring and devices

### Network Ring Card

Creates a true ring topology and replaces redundant pairs to lower the cost of installation and provide a higher degree of survivability in system communications.

- Provides a true ring topology by simply connecting the last panel to the first in the network
- No more double conduit runs from separate directions
- Mix copper and fiber in segments



### Full Integration with VESDA / High-Level Interface Support

Reads a full range of VESDA alarm and status signals for highly sensitive smoke detection and pinpoint diagnostics – all fully compliant with NFPA 76 standards.

- Full integration with most VESDA aspiration detectors eliminates the need for separate relays and bulky, extra wiring
- Recognizes and reports on four alarm levels per detector
- Specific trouble signals provide key information of the type of trouble condition rather a general "fail" signal
- Reports alarms and system status at the panel
- Reset the VESDA detectors right from the Designo Fire Safety Modular

# Offering innovation, excellence, partnership, and customer choice

Siemens provides decision makers with effective solutions, products, and service provider options for their fire & life safety needs – now or in the future! Our approach to market through a dual brand strategy provides the most comprehensive market coverage to meet your needs.

## Our Commitment

Siemens market approach provides world class customer choice. No matter the project scope or need – we offer the right solutions, products, and service provider choice for the entire lifecycle of your fire & life safety system.

Our nationwide network of Siemens offices and solution partners are Siemens fire technology certified to service and support any Siemens fire system.

## Desigo Fire Safety

Desigo is the complete portfolio delivered by Siemens branches offering a total building solution. Desigo offers a comprehensive portfolio of fire panels, detection, mass notification, and integrated building management systems that create an intelligent infrastructure to protect your building and its occupants. It provides the right systems, solutions, and platforms to meet your comfort, security, and life safety needs for any application.



**Contact customer service to find the Siemens Field Office in your region!**

To start your next fire & life safety project, and learn about which solution is best for your needs, contact Siemens Customer Service today. Call us at (800) 262-7976, or email inquiries to [fpkcustomerservice.industry@siemens.com](mailto:fpkcustomerservice.industry@siemens.com).





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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract. The document contains a general product overview. Availability can vary by country. For detailed product information, please contact the company office or authorized partners.

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Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming, and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

*“We are the preferred partner for energy-efficient, safe, and secure buildings and infrastructure.”*